



CBTMN LORA BLE Module

Based on Nordic's nRF52832 and Semtech's SX1262

Multiprotocol LoRaWAN™, Bluetooth low energy, ANT/ANT+ and 2.4GHz proprietary System-on-Chip.

CWD Innovations Private Limited (CWDIN) is proud to be an Indian design house that not just designs, develops award winning certified solutions but also locally manufactures, supports end user implementation and helps with integration for various requirements.

CWD LORA BLE Module is a multiprotocol module that supports LoRaWAN™, Bluetooth 5.0 stack for BLE (Bluetooth Low Energy) and is designed for high data rate long-range wireless communication in the 2.4GHz ISM band for BLE and 150 MHz to 960 MHz bands for LORA. Further the module support SIGMESH protocol, ANT protocol and LoRaWAN® standard or proprietary protocols. The module can transmit up to +22 dBm with highly efficient integrated power amplifiers on LoRA and can transmit upto +4dbm in BLE.



| CBTMLM01 | |
|--------------|---|
| Introduction | Combination module of nRF832 and LoRA Semtek's SX1262, where nRF hosts and controls LoRA stack for highly power optimized yet fully stacked implementation. |
| Memory | 64 KB RAM and 512 KB FLASH |
| SoC | BLE (nRF52832) LORA (SX1262) |

| Features | | |
|---------------------|--|---|
| Protocols Supported | BLE 5.0, SIG MESH, ANT and 2.4 GHz Proprietary | LoRaWAN® standard or proprietary protocols. |
| TX Power | +4 dBm | +22 dBm |
| Frequency Band | 2.4 GHz ISM | 150 MHz to 960 MHz |
| Modulation | | FSK, GFSK, MSK, GMSK and LoRa modulation |
| Advanced Features | 2 Mbps RF Sensitivity, CSA#2 and Avertising Extensions | Programmable bit rate up to 62.5 kbps LoRa and 300 kbps FSK |
| Certifications | CE RED | |
| Customisation | Supported | |
| Programming SDK | Supported | |
| Antenna | For BLE PCBA Antenna and u.FL, For LoRA u.FL & Helical Antenna | |

Key Features

- This module provide a low power yet ultra-low-cost solution for long range wireless transmission applications.
- Module is industry proven with applications that are widely used across various sectors like Smart meters, Supply chain and logistics , Building automation ,Smart cities, consumer electronics, tracking solutions, gaming solutions, lighting solutions and various others.
- This low foot print module is highly customisable with on board PCB antenna as well as Antenna connector for applications where it matters
- Module has on board crystals for reducing the overall integration effort and BoM for the end customers
- With well equipped local support team, CWD also provides module along with core software expertise for ease in integration.

Contact us info@cw din.com
 CWD INNOVATION PRIVATE LIMITED
 A-109, Rupa Solitaire Building
 Millennium Business Park,
 Mahape, Navi Mumbai
 Maharashtra, India. 400 710